



APICAL INDUSTRIES, INC.  
dba DART AEROSPACE

ENGINEERING CHANGE NOTICE NO. 05766

SHEET 1 OF 1

DWG NO. 647.4100

REV: N/C

PREPARED  
BY

Q. SMITH

DATE: 06/20/17

EFFECT ON DWG  
☐ INC. ☒ UNINC.

DWG TITLE: SHEETMETAL

ECR: 17-058

APPROVED BY:

ENGR

MFG

QC

EFF:

NEXT ORDER

TRANSACTION CODES (TC):  
A-ADD C-CREATE  
R-REVISE D-DELETE

REASON: CHANGE TYPE II TO TYPE III ANODIZE

ECR TEMPLATE 01-07-17

## SHEET 1, NOTES IS

ACTION LIST:  
1. N/A

NOTES: UNLESS OTHERWISE SPECIFIED

1. MATERIAL: ALUMINUM 2024-T3 PER AMS-QQ-A-250/4
2. FINISH IAW MPP-172 SECTIONS 2.1, 3.1, 4.2
3. DEBURR AND BREAK ALL SHARP EDGES
4. IDENTIFY IAW MPP-120

IS

DOCUMENTS EFFECTED:

☐ PATTERN

☐ MDL

☐ INSTALL INSTRU

☐ ICA

☐ BOM

CHANGE CATEGORY

☐ MAJOR ☒ MINOR

DER REVIEW REQUIRED

☐ YES

☒ NO

APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 02866				SHEET 1 OF 1	
	DWG NO. 647.4100	REV: N/C	PREPARED BY R. ROSANO	DATE: 05/05/10	EFFECT ON DWG <input type="checkbox"/> INC. <input checked="" type="checkbox"/> UNINC.	
	DWG TITLE: SHEET METAL					
	APPROVED BY: ENGR. <i>[Signature]</i>	MFG. <i>[Signature]</i>	QC <i>[Signature]</i>	EFF: CURRENT ORDER		
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE	REASON: CHANGED PRETREATMENT CALLOUT					

SHEET 1, ZONE A1 IS:

NOTES: UNLESS OTHERWISE SPECIFIED

- 1. MATERIAL: ALUMINUM 2024-T3 PER AMS-QQ-A-250/4
- 2. FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE II, CLASS 2, COLOR BLACK;  
PRETREAT PR-148 ADHESION PROMOTER  
PRIME IAW MIL-P-23377J TYPE I CLASS N
- 3. DEBURR AND BREAK ALL SHARP EDGES
- 4. IDENTIFY IAW MPP-120

IS

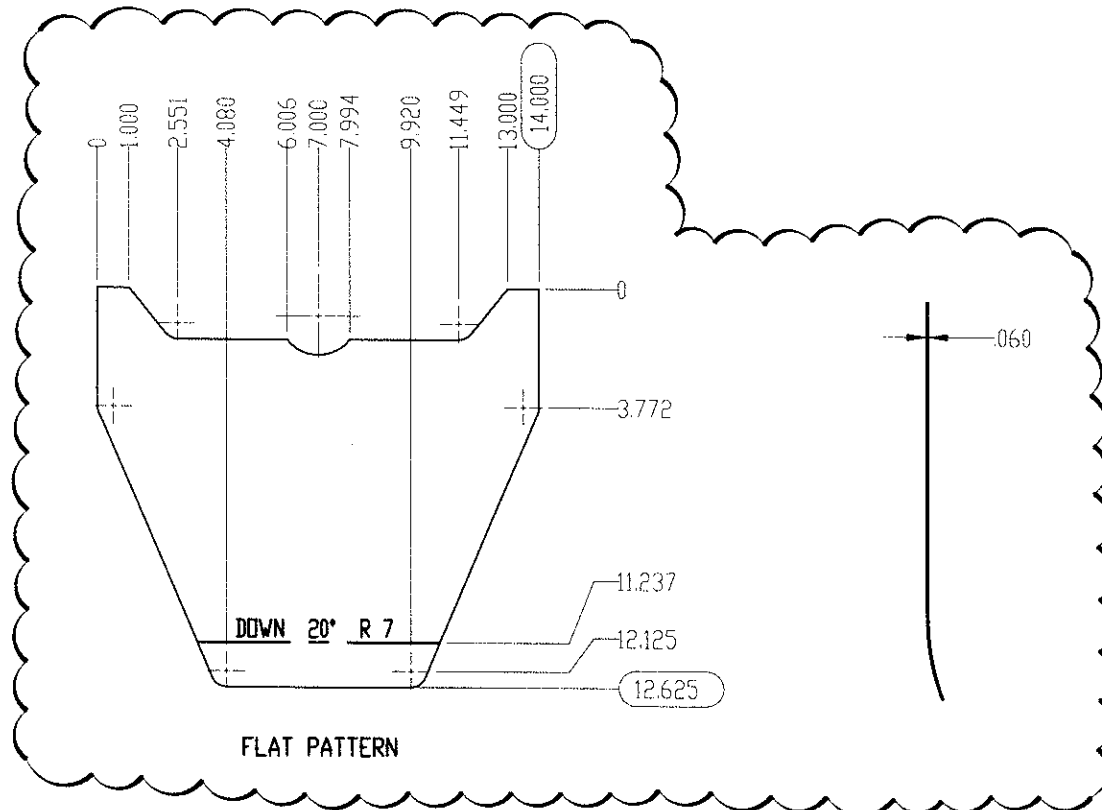
F/N	TC	PART NUMBER	QTY	DESCRIPTION	MATERIAL	SPECIFICATION
DOCUMENTS EFFECTED:				<input type="checkbox"/> MDL <input type="checkbox"/> INSTALL INSTRUC <input type="checkbox"/> ICA <input type="checkbox"/> BOM	CHANGE CATEGORY <input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> MINOR	DER REVIEW REQUIRED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

# APICAL

INDUSTRIES, INC.

ENGINEERING CHANGE NOTICE NL 04510				SHEET 1 OF 1	
DWG NO. 647.4100		REV: N/C	PREPARED BY: J. BECKER	DATE: 04/24/14	EFFECT ON DWG <input type="checkbox"/> INC. <input checked="" type="checkbox"/> UNINC.
DWG TITLE: SHEETMETAL					
APPROVED BY:	ENGR <i>[Signature]</i>	MFG <i>[Signature]</i>	QC <i>[Signature]</i>	EFF: <i>[Signature]</i>	NEXT ORDER
REASON: MODIFIED DOUBLER.					

TRANSACTION CODES (TC):  
A-ADD C-CREATE  
R-REVISE D-DELETE



SHEET 1, ZONE C2 IS:

DOCUMENTS EFFECTED:

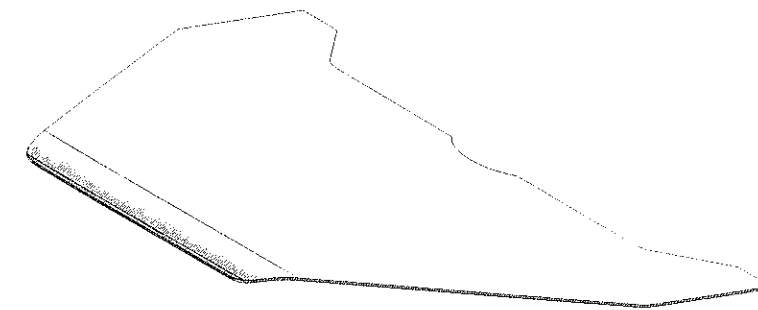
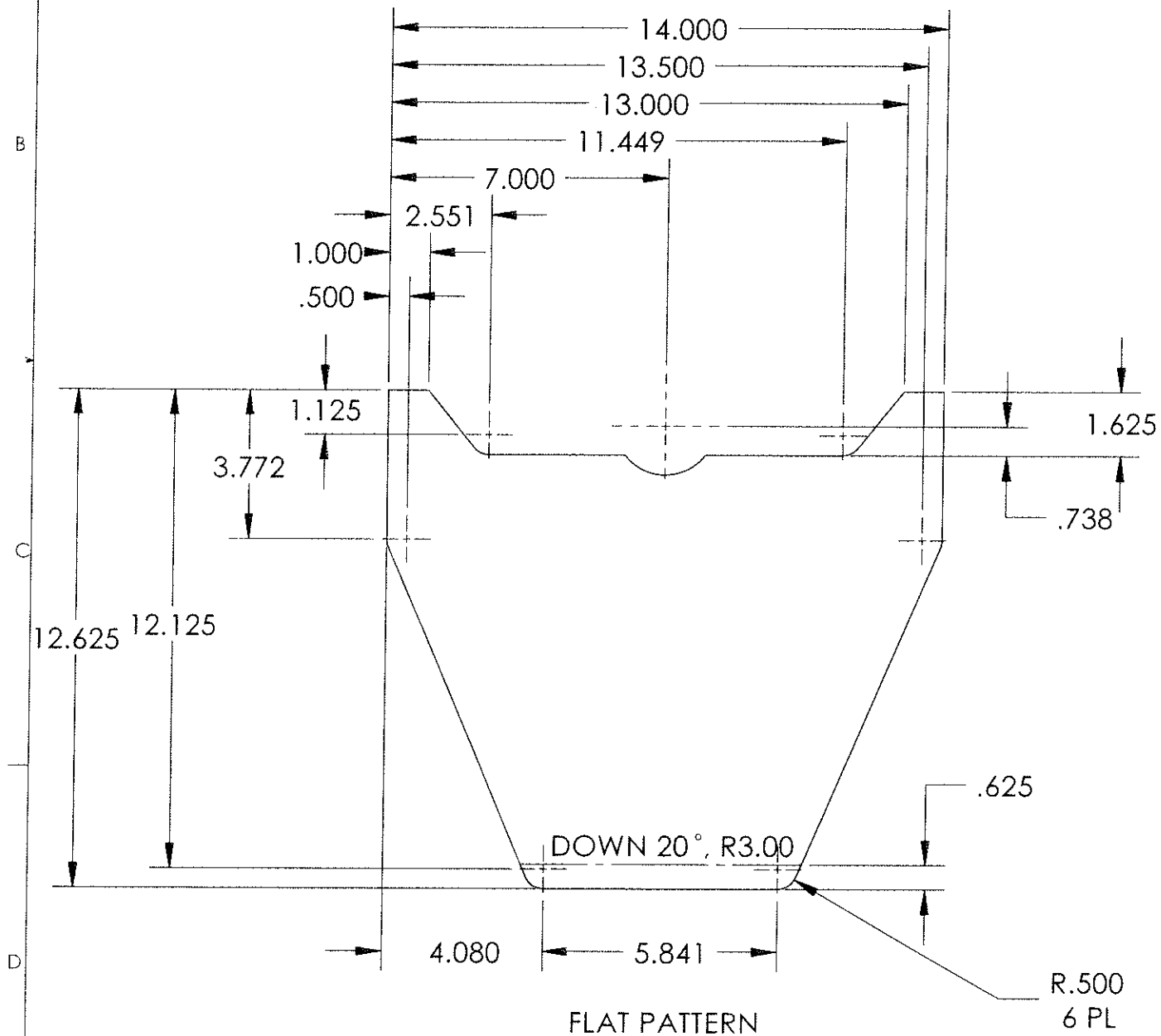
☐ MDL ☐ INSTALL INSTRUC ☐ ICA ☐ BOM

CHANGE CATEGORY  
☐ MAJOR ☒ MINOR

DER REVIEW REQUIRED  
☐ YES ☒ NO

1. MATERIAL: ALUMINUM 2024-T3 PER AMS-QQ-A-250/4















2. FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE II,  
CLASS 2, COLOR BLACK;  
CARDINAL 4860-50 PRETREATMENT PRIMER  
PRIME IAW MIL-P-23377J TYPE I CLASS N
3. DEBURR AND BREAK ALL SHARP EDGES
4. IDENTIFY IAW MPP-120



647.4110

UNINCORPORATED ECN(S)

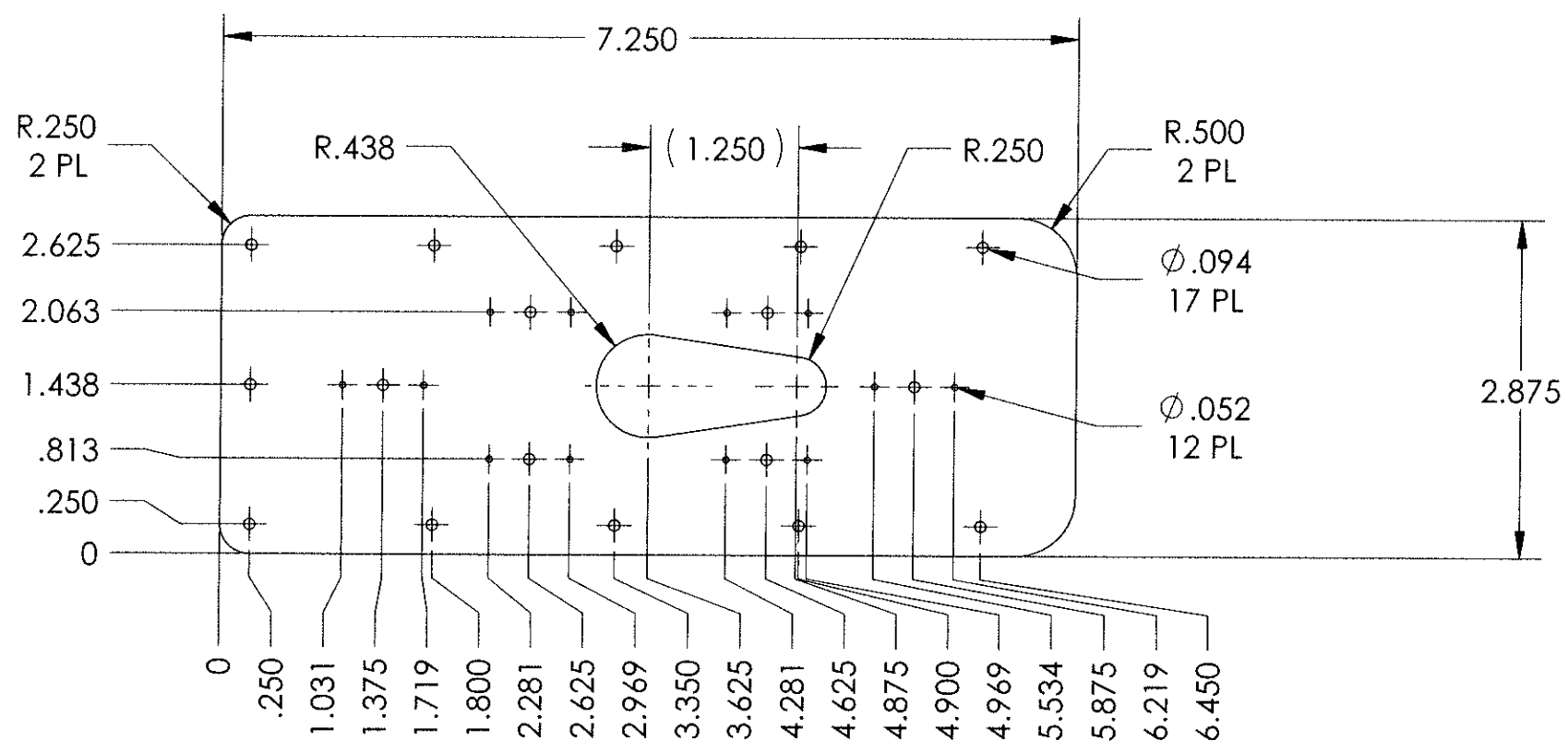
02866, 04510, 05766

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				647.4115	SHIM		
				647.4114	SHIM		
				647.4113	CLIP		
				647.4112	CLIP		
				647.4111	DOUBLER		
				647.4110	DOUBLER		
			FIND #	PART #	DESCRIPTION	MAT'L	SPEC.
QTY				PARTS LIST			
NEXT ASSY (S)				APICAL INDUSTRIES			
647.3700				2608 TEMPLE HEIGHTS DR.			
				OCEANSIDE, CA. 92056-3512 (760) 724-5300			
				SHEETMETAL			
ORIGINAL DATE 08/25/05 (MCO-DA-VRI) DRAWN BY CHECKER P. ROSANO D. BARKER DRAWING APPROVAL P. BRAVO 08/25/05 CONTRACT NO.				SIZE B GAGE CODE 07M26 DWG. NO. 647.4100 REV. N/C			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 ANGLES ± .5°				SCALE NONE SHEET 1 OF 6			

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TYP.

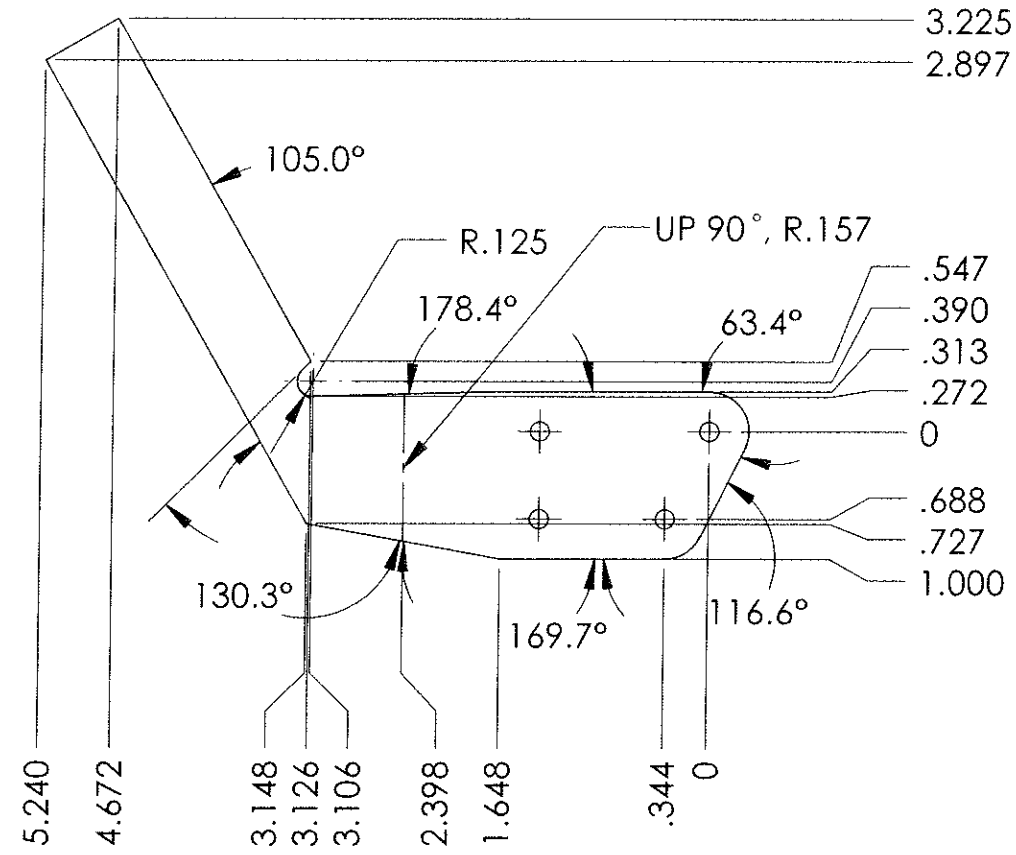
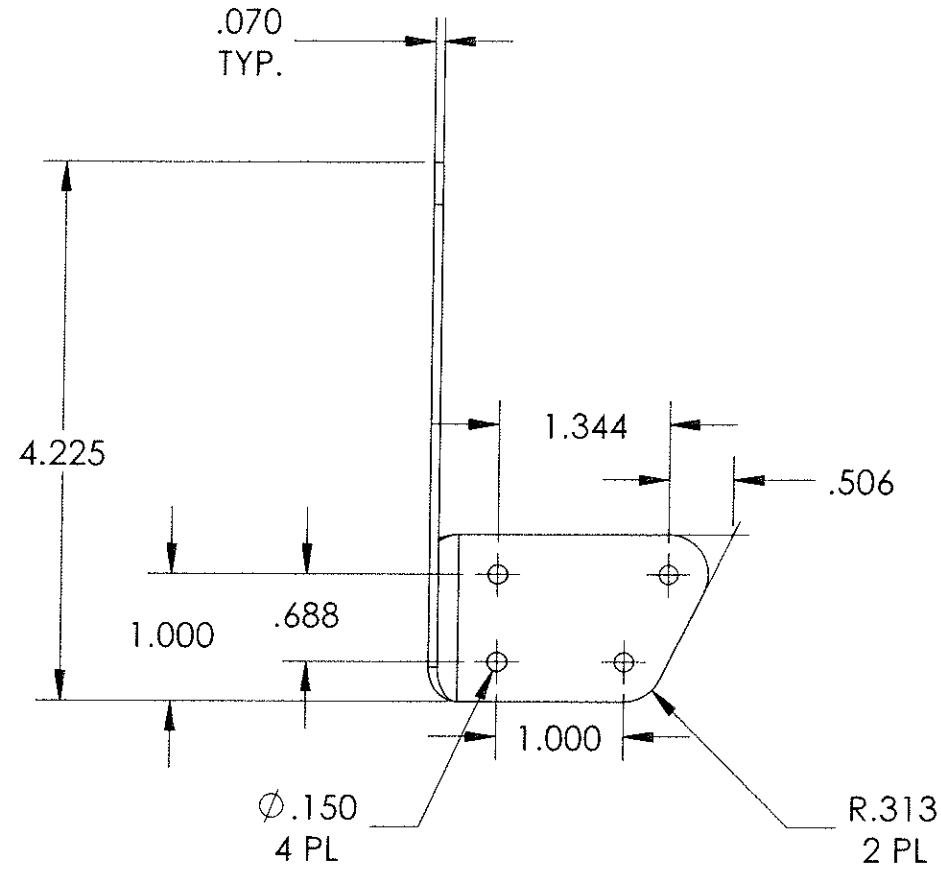
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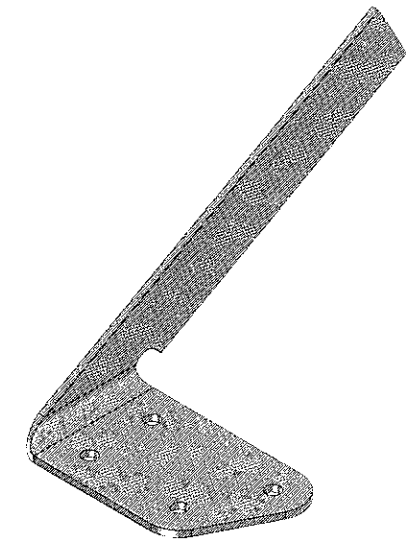
ORIGINAL DATE (MO-DA-YR) 08/25/09		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWN BY R. ROSANO	CHECKER D. BARTER		
DRAWING APPROVAL P. BRAVO 08/25/09		SHEETMETAL	
CONTRACT No.		SIZE B	REV. N/C
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		CAGE CODE 07M26	DWG. NO. 647.4100
		SCALE NONE	SHEET 2 OF 6

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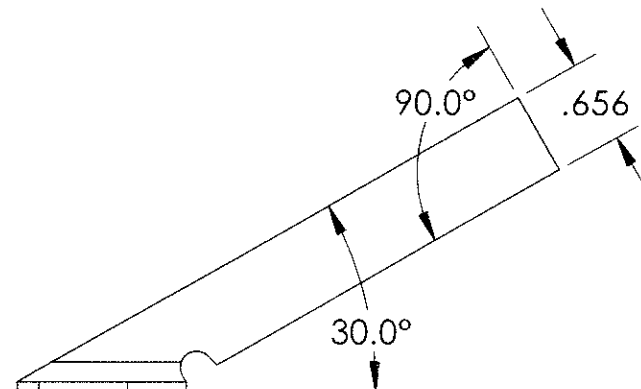
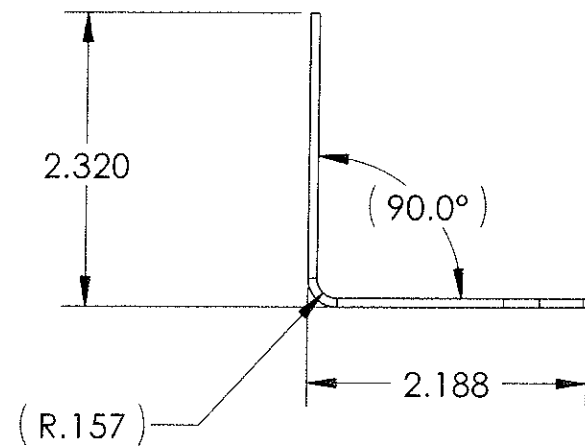
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



FLAT PATTERN



647.4113 SHOWN  
647.4112 OPPOSITE



ORIGINAL DATE 15/04-DA-YR) 05/25/09		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300			
DRAWN BY P. POSA				CHECKER D. BARRY	
DRAWING APPROVAL P. BARRY 05/25/09					
CONTRACT NO.		SHEETMETAL			
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE	CAGE CODE	DWG. NO.	REV.
		B	07MZ6	647.4100	N/C
		SCALE NONE		SHEET	3 OF 6

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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

A

.063

B

647.4114

C

4.80

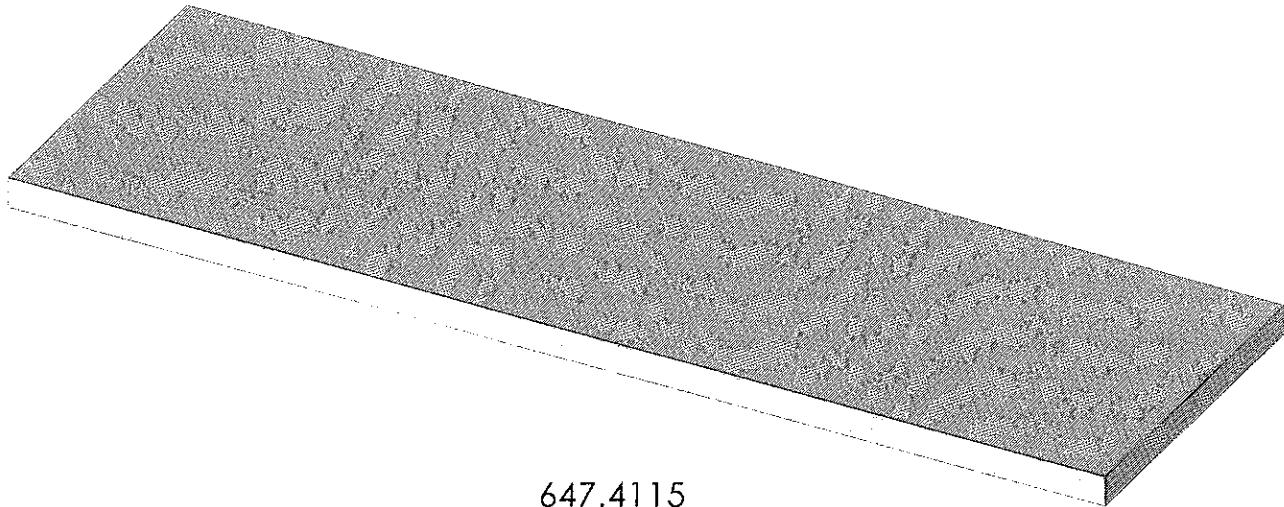
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D

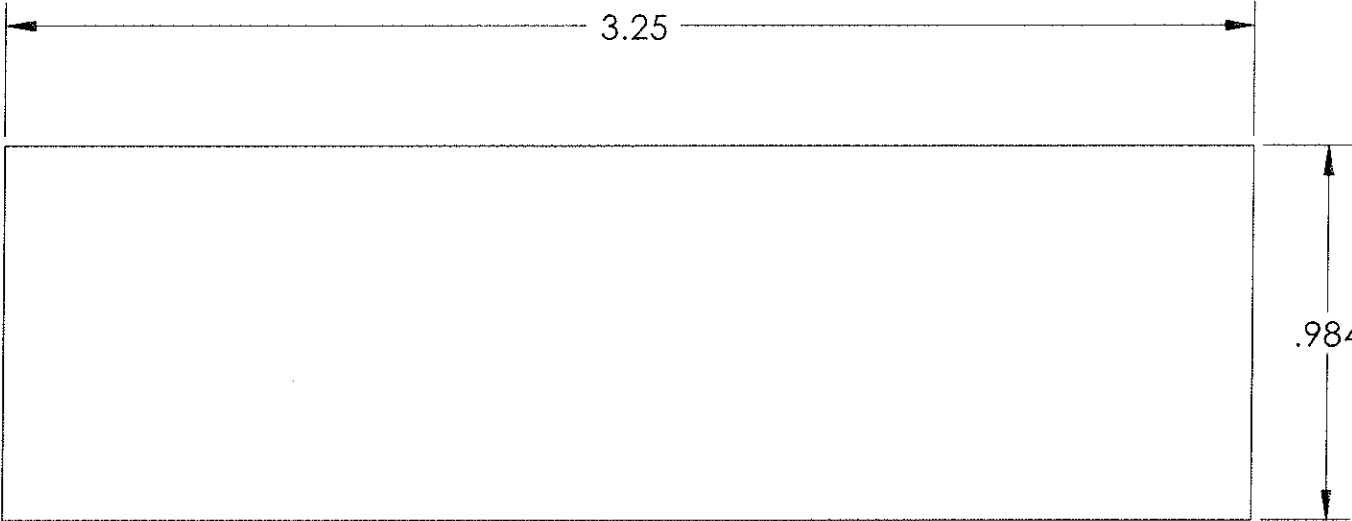
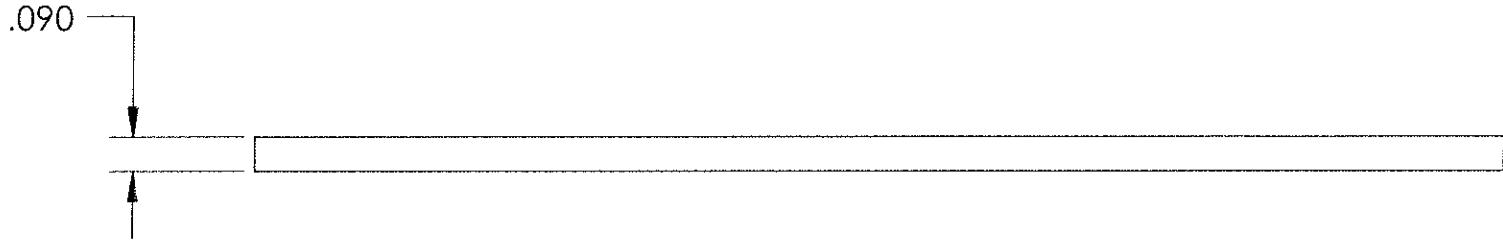
ORIGINAL DATE (MO-DA-YR) 08/25/09		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300			
DRAWN BY R. POSANO	CHECKER D. BARTER				
DRAWING APPROVAL P. BRAVO 08/25/09		SHEETMETAL			
CONTRACT NO.		SIZE B	CAGE CODE 07MZ6	DWG. NO. 647.4100	REV. N/C
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SCALE NONE		SHEET 4 OF 6	

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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



647.4115

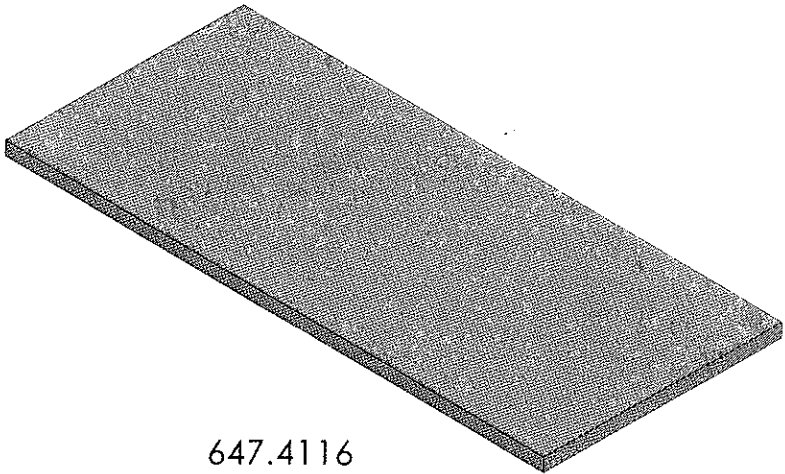
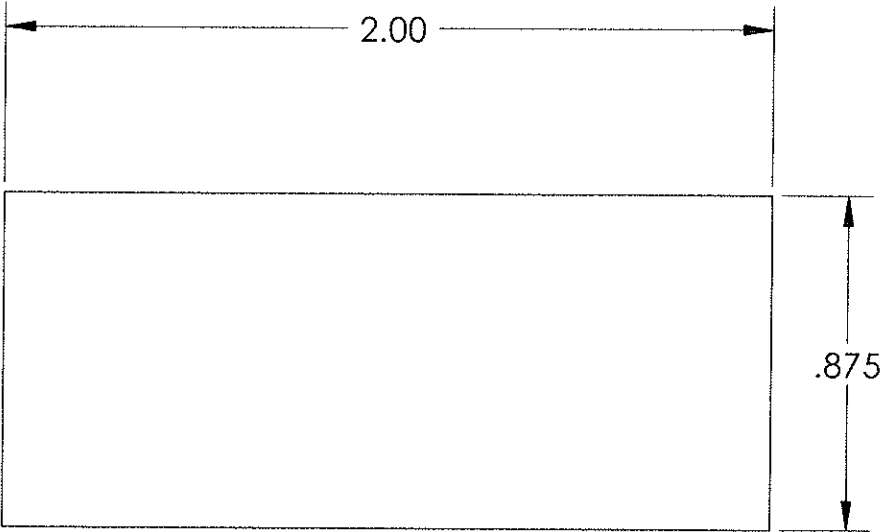
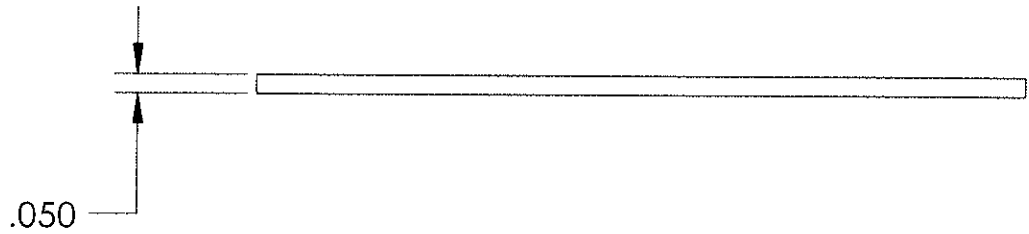


ORIGINAL DATE (MM-DD-YY) 08/25/09		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWN BY P. POSANG	CHECKER D. BARKER		
DRAWING APPROVAL P. BRAVO 08/25/09			
CONTRACT NO.		SHEETMETAL	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE B	REV. N/C
		CAGE CODE 07M26	DWG. NO. 647.4100
		SCALE NONE	
		SHEET 5 OF 6	



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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



ORIGINAL DATE  
1/10/04-1/11/04 08/25/09  
DRAWN BY  
P. ROSANO D. BARKER  
DRAWING APPROVAL  
P. BRAVO  
08/25/09  
CONTRACT NO.

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ARE:  
2 PLACE DECIMALS ±.01  
3 PLACE DECIMALS ±.005  
ANGLES ±.5°

**APICAL INDUSTRIES**  
2608 TEMPLE HEIGHTS DR.  
OCEANSIDE, CA. 92056-3512 (760)724-5300

**SHEETMETAL**

SIZE B	CAGE CODE 07MZ6	DWG. NO. 647.4100	REV. N/C
SCALE NONE			SHEET 6 OF 6